



Knowing the Code

Information Technology occupations are some of the most in demand occupations in Missouri. Computer programming, developing, and support occupations employed more than 88,000 people at an average wage of \$79,860 in 2019 (Occupational Employment Statistics estimates). Employment in Information Technology occupations is projected to grow 13.4 percent from 2018-2028 (MERIC Long-Term Employment Projections).

From March 1, 2020 – Feb. 28, 2021, there were over 45,000 online job ads in Missouri for selected IT occupations (Burning Glass Technologies). Programming skills are highly valued in these occupations. The majority of job ads for these occupations request applicants are proficient in various computer-programming languages. Top requested programming languages include SQL, Java, and Python, most commonly found in job ads for Applications Software Developers and Computer Systems Engineers and Architects.

| Top 20 Requested Programming Languages in Computer Occupations | | |
|--|---------------------------|----------------|
| Skill | Language Type | Online Job Ads |
| SQL | Database Language | 10,324 |
| Java | Programming Language | 8,980 |
| Python | Programming Language | 5,826 |
| JavaScript | Programming Language | 5,429 |
| Oracle | Database Language | 4,772 |
| Linux | Other - Operating Systems | 4,376 |
| C# | Programming Language | 3,321 |
| Git | Programming Language | 3,263 |
| SQL Server | Database Language | 2,796 |
| Atlassian JIRA | Programming Language | 2,396 |
| .NET | Programming Language | 2,336 |
| UNIX | Other - Operating Systems | 2,319 |
| SAP | Other - Enterprise | 2,048 |
| Microsoft PowerShell | Other - Operating Systems | 1,894 |
| Extensible Markup Language (XML) | Other - Markup Language | 1,865 |
| NoSQL | Database Language | 1,677 |
| PostgreSQL | Database Language | 1,662 |
| JavaScript Object Notation (JSON) | Programming Language | 1,657 |
| C++ | Programming Language | 1,638 |
| AngularJS | Other - Markup Language | 1,588 |

Source: Burning Glass/Labor Insight, online job ads Mar. 01, 2020 - Feb. 28, 2021

Who's Hiring?

| Top Industries | | | Top Employers |
|----------------|--|--------------|------------------------|
| NAICS Code | Industry Title | Job Postings | |
| 541 | Professional, Scientific, and Technical Services | 5,629 | The Boeing Company |
| 522 | Credit Intermediation and Related Activities | 1,828 | Wells Fargo |
| 336 | Transportation Equipment Manufacturing | 1,390 | Technology Partners |
| 524 | Insurance Carriers and Related Activities | 1,069 | Deloitte |
| 523 | Securities, Commodity Contracts, & Other Financial Investments | 1,050 | Charter Communications |
| 622 | Hospitals | 866 | MasterCard Worldwide |
| 561 | Administrative and Support Services | 833 | Cerner Corporation |
| 511 | Publishing Industries (except Internet) | 734 | Edward Jones |
| 611 | Educational Services | 657 | Leidos |
| 928 | National Security and International Affairs | 582 | Bayer Corporation |

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Industries with the most job postings for Information Technology occupations included Professional, Scientific, and Technical Services and Credit Intermediation and Related Activities. The top employer was Boeing, followed by Wells Fargo and Technology Partners.

Skill Profile

Python – is an interpreted, object-oriented, high-level programming language with dynamic semantics. Python is designed to be easy to read and simple to implement. Python supports modules and packages, which encourages program modularity and code reuse. Its formatting is visually uncluttered, and it often uses English keywords where other languages use punctuation. Python is most commonly requested in job ads for Applications Software Developers, Computer Systems Engineers and Architects, and Database Administrators. Employers requesting Python in online job ads include Boeing, Wells Fargo, and Technology Partners.

This report uses annual data from the Bureau of Labor Statistics where there is a time-release lag to ensure all data is reported in from various sectors and geographic locations.

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